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FIG. 1

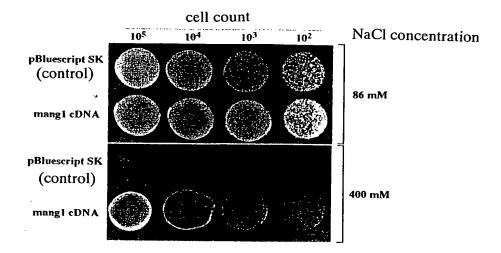


FIG. 2

cell count

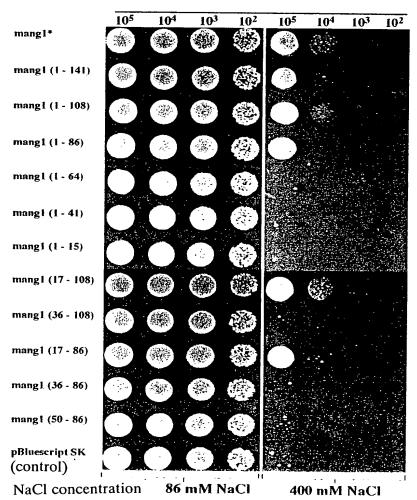


FIG. 3

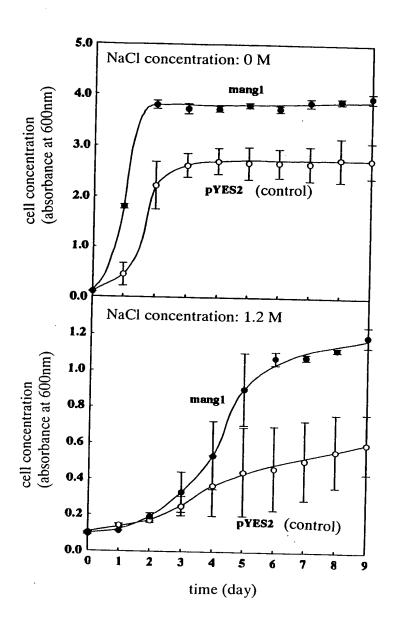


FIG. 4

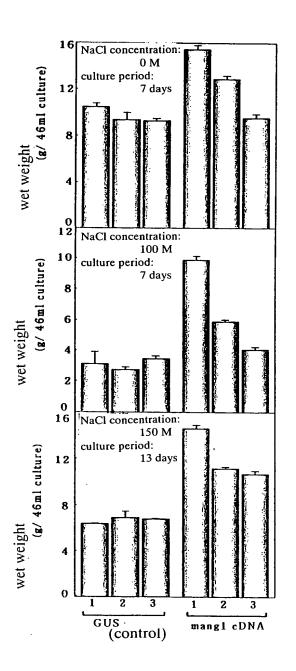


FIG. 5

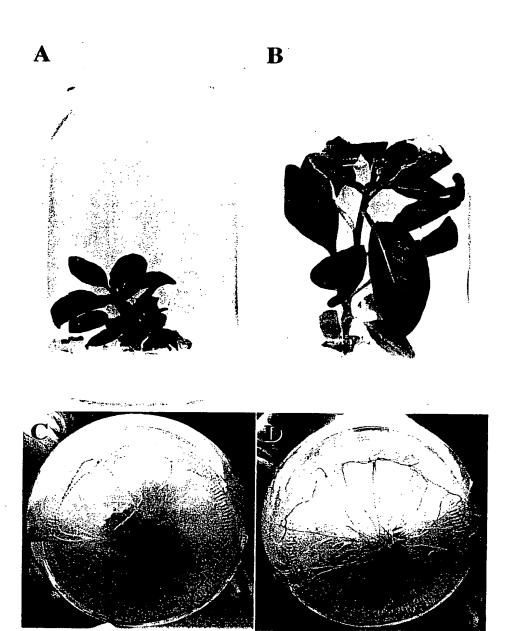
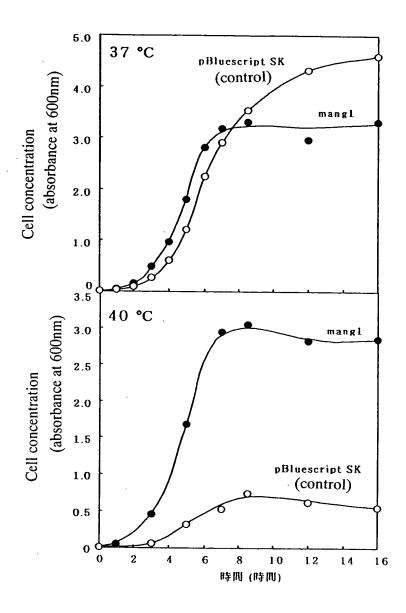


FIG. 6



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FIG. 7

cell count

mang1

pBluescript SK (control)

 $1\,0^{\,4}$ 10^3 10^2

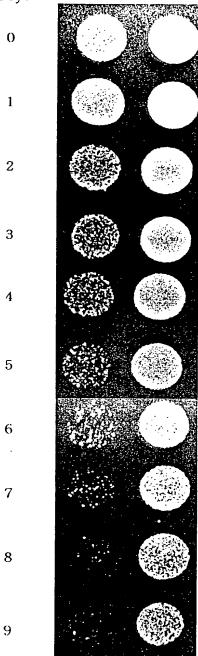
concentration of sorbitol:

 $800 \ mM$

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FIG. 8

freezing/melting pBluescript SK mang1 numbers of cycle (control)



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FIG. 9

comparison of the sequence of bases

manarin core	1 ATGAAGGTGGTCGGCCCTGCAAGATCAAAGAGTGCTACTGTACCCACCC	G 60
C-52	1 ATGAAGGTGGTCGGCCCTGCAAGATCAAAGAGTGCTACTGTACCCACCC	6 60
C-80	1 ATGAAGGTGGTCGGCCCTGCAAGATCAAAGAGTGCTACTGTACCCACCC	G 60
mangrin core	61 CCTTTCAAGTTCACAAACCCGTCGTTACTCACTCGATCGCTAAGCTTTTCATCAAAAGG	T 120
C-52	61 CCTTTCAAGTTCACAAACCCGTCGTTACTCACTCGATCGCTAAGCTTTTCATCAAAACC	1 1 20
C-80	61 CCTTTCAAGTTCGCAAACCCGTCGTTACTCACTCGATCGCTAAGCTTTTCATCAAAAGG	120
mangrin core	121 TCAAGCTTTGACAGCTTCTCTGTACCCAAAAGATCTTTTTCTTGCAGAAGCCAAGCCAC	Г 180
C-52	121 TCAAGCTTTGACAGCTTCTCTGTACCCAAAAGATCTTTTTCTTGCAGAAGCCAAGCCAC	100
C-80	121 TCAAGCTTTGACAGCTTCTCTGTACCCAAAAGATCTTTTTCTTGCAGAAGCCAAGCCAC	180
mangrin core	181 CCATCTGATGATGCCTCAAGACCCACCAAAGTTCAAGAGCTGTAA	225
C-52	181 CCATCTGATGATGCCTCAAGACCCACCAAAGTTCAAGAGCTGTAA	225
C-80	181 CCATCTGATGATGCCTCAAGACCCACCAAAGTTCAAGAGCTGTAA	225
comparison of	of the sequences of amino acids	
mangrin core	1 MKVVGPARSKSATVPTQTVLPFKFTNPSLLTRSLSFSSKGSSFDSFSVPKRSFSCRSQAT	60
C-52	1 MKVVQPAKSKSAIVPI()IVI PEKETNPSI I TRSI SESSKGSSEDSESVDVDSESSEDSAF	60
C-80	1 MKVVGPARSKSATVPTQTVLPFKFANPSLLTRSLSFSSKGSSFDSFSVPKRSFSCRSQAT	60
mangrin core	61 PSDDASRPTKVQEL	74
C-52	61 PSDDASRPTKYQEL	74
C-80	61 PSDDASRPTKVQEL	74
		7 7

FIG. 10

comparison of the functions of improvement of salt stress tolerance cell counts spotted

